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# AYUSH KUMAR

STUDENT

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## SUMMARY

Motivated **Computer Science** and **Engineering** student currently pursuing a degree at **Guru Tegh Bahadur 4th Centenary College**. Bringing **2 years of practical coding experience** in **Java, JavaScript, and C/C++**. Passionate about leveraging strong **problem-solving abilities** and a **foundational knowledge of electronics** to architect **efficient software solutions** and **contribute effectively** to a **dynamic engineering team**.

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## SKILLS

- **Programming Languages:** C, C++, Java, JavaScript, Python, Flask, MySQL, Shell Scripting, HTML, CSS.
  - **Developer Tools & Technologies:** Git, GitHub, Ren'Py Engine, Browser Extension APIs.
  - **Systems & Environments:** Linux, Custom Android ROM Development (GKI and GSI), Vulnerability Identification.
  - **Hardware & Automation:** Arduino, PLC, SCADA, Vijeo Designer.
  - **Soft Skills:** Problem Solving, Troubleshooting, Presentation Skills, Adaptive Learning, Decision Making, Effective Communication.
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## EXPERIENCE

### Max Engg. and Automation | Intern

06/2022 - 8/2022

- Gained hands-on experience with industrial automation technologies by programming and simulating 15+ automation sequences using Ladder Logic.
- Streamlined control processes for manufacturing environments, improving simulated workflow efficiency by 10%.
- Configured 5 Human-Machine Interface (HMI) screens utilizing Vijeo Designer for real-time system monitoring and control.
- Collaborated with a team of senior engineers to analyze and map out industrial workflow automation and control system architecture.

### Bentext Pvt. Ltd. | Intern

04/2022 - 6/2022

- Conducted rigorous component-level analysis and testing on 10+ electronic circuits within digital electric meters to ensure 100% operational accuracy.
  - Diagnosed circuit faults and resolved hardware integration issues, resulting in improved overall device reliability.
  - Documented extensive testing procedures, hardware specifications, and circuit performance metrics into 3 comprehensive technical reports.
  - Presented hardware insights and technical findings directly to the engineering team to improve future component integration.
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## PROJECTS

### Freelance E-Commerce Web Development | [electronicshive.in](https://www.electronicshive.in) & [saaaja.in](https://www.saaaja.in)

- Designed and deployed two fully functional e-commerce platforms for independent clients from the ground up, ensuring responsive design and secure transactions.
- Constructed *electronicshive.in* tailored for a hardware electronics component retailer, and *saaaja.in* customized for a women's apparel business.
- Collaborated directly with clients to translate business requirements into user-friendly digital storefronts, refining product catalogs and checkout flows.

## Android Custom ROM & Kernel Development | Moto g54 5G & Redmi Note 10

- Built and compiled stable custom ROMs for Moto g54 5G and Redmi Note 10 devices, bringing the latest Android OS features to legacy and mid-range hardware.
- Leveraged Generic Kernel Images (GKI) to ensure broad compatibility, maximized system stability, and modern Android compliance.
- Fine-tuned system-level configurations to improve battery efficiency, device performance, and user privacy.

## Cloud, Automation, and AI Applications | Fluency AI, TeLinux, Telestorage, HiddenCloud

- **Fluency AI:** Programmed a cross-platform application (web and mobile) integrating the Gemini AI API to provide users with an interactive environment for improving spoken English.
- **TeLinux & Telestorage:** Architected a custom Telegram bot (TeLinux) enabling secure, remote execution of Linux terminal commands without SSH, alongside an automated scripting solution (Telestorage) that seamlessly backs up local directories to a private Telegram server.
- **HiddenCloud:** Built a locally hosted, fully encrypted cloud storage architecture to securely manage and protect personal files.

## Browser Extensions & Productivity Software | SiDevTools, HisMap, GoonFree, etc.

- **Developer Toolkit (SiDevTools):** Formulated a comprehensive utility interface for developers featuring integrated tools including a JSON Formatter, Base64 Tool, URL Encoder, Timestamp converter, Color Picker, SHA-256 Hash generator, and JWT Decoder.
- **Firefox Extensions:** Created *HisMap*, a visual mapping tool for intuitive browsing history navigation, and *AyuPage*, an advanced new-tab homepage customizer.
- **Privacy & Habit Tracking Apps:** Devised *CalcPro*, a secure data vault disguised as a calculator, and *GoonFree*, a productivity application designed to block distractions and help users break negative habits.

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## ACHIEVEMENTS & OPEN SOURCE CONTRIBUTIONS

- **Vulnerability Identification & Bug Bounty:** Successfully identified and reported a critical security vulnerability to the Telegram security team regarding API bot token interception.
- **Software Publishing:** Configured and successfully published functional browser extensions (such as HisMap and AyuPage) to the official Firefox Add-on Store.
- **Open-Source Development:** Authored and open-sourced multiple applications on GitHub, including a ChatGPT-integrated bot, a custom password manager, and interactive visual novels utilizing Java and the Ren'Py engine.
- **Community Recognition:** Maximized performance and compiled nearly 100 custom Android ROMs for Redmi hardware; earned official acknowledgment and recognition from prominent Android developers (Nippon and Cafebabe) for contributions to the custom ROM community.

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## EDUCATION

### Guru Tegh Bahadur 4th Centenary College

Computer Science Engineering (2023 – Pursuing)

### PUSA Institute of Technology

Electronics and Communication

2020 - 2023 | 89.6% Marks

### P.G D.A.V Sen. Sec. School

Class 10th (CBSE), 03/2019 - 03/2020, 81.2% Marks

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## CERTIFICATIONS

Spoken English Course

### Freedom Employability Academy

03/2022 - 03/2023

Refined technical and professional communication abilities to articulate complex engineering concepts clearly, facilitate seamless cross-functional team collaboration, and provide effective client-facing support.